



#3

SEQUENCE LISTING

<110> Urry, David

<120> Injectable Implants For Tissue Augmentation and Restoration

<130> BERL-020/04US

<140> 09/841,321

<141> 2001-04-23

<150> US 09/258,723

<151> 1999-02-26

<150> US 60/087155

<151> 1998-05-29

<150> US 60/076297

<151> 1998-02-27

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<170> PatentIn version 3.0

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gggtgtggg	cg	tcccgggtgt	aggtgttcca	ggcgtagggg	taccgggtcg	tggtgactct	180			
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ccggg	cg	tag	gcgtgccggg	cgtaggcgtt	ccggg	cg	tgg	gcgtaccggg	cgtaggcgtg	300
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tggcg	ttgca	ccggg	cgtag	gtgtt	gtc	cc	ggcgttggc	gt	ggcgccgg	gt	gttggtgt	240
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20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45

Val Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
65 70 75 80

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val

1061061061

20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45

Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
50 55 60

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro
65 70 75 80

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
85 90 95

Ala Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
100 105 110

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Val Gly Val Pro
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45

Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
50						55					60				

Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
65					70					75					80

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
85 90 95

Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			100					105					110		

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
115 120 125

Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
50 55 60

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
65 70 75 80

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
85 90 95

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
100 105 110

Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Ala Pro
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1 5 10 15

Val Gly Val Pro Gly Glu Gly Val Pro
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Gly Ala Gly Gly Ala Thr Cys Cys Gly Ala Ala Gly Ala Cys Ala Ala
1 5 10 15

Cys Ala Gly Gly Thr Gly Gly Thr Gly Thr Thr Cys Cys Gly Gly Gly
20 25 30

Cys Gly Gly Cys Gly Thr Ala Cys Cys Gly Gly Gly Thr Gly Gly Cys
35 40 45

Gly Thr Ala Cys Cys Gly Gly Gly Cys Gly Gly Thr Thr Thr Cys Cys
50 55 60

Cys Gly Gly Gly Ala Gly Gly Thr Gly Thr Gly Cys Cys Gly Gly Gly
65 70 75 80

Thr Gly Gly Gly Gly Thr Thr Cys Cys Ala Gly Gly Cys Gly Gly Thr
85 90 95

Gly Thr Ala Cys
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Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
20 25 30
Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly
35 40 45
Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val
50 55 60
Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro
65 70 75 80
Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly
85 90 95
Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val
100 105 110
Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly
115 120 125
Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe
130 135 140
Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
145 150 155 160
Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly
165 170 175
Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys
180 185 190
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly
195 200 205
Phe Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val
210 215 220
Pro Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
225 230 235 240
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
245 250 255
Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
260 265 270

Gly Phe Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro Gly Val Gly
595 600 605

Val Pro Gly Lys Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Phe
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Pro Gly Phe Gly Phe Pro Gly Val Gly Val Pro
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gggaca 66

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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45

Val Pro
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35 40 45
Val Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
65 70 75 80
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
85 90 95
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
100 105 110
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
115 120 125
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
130 135 140

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
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Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly Val
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515 520 525

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
545 550 555 560

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565 570 575

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
580 585 590

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595 600 605

Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly Val Gly
610 615 620

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
660 665 670

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
675 680 685

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
690 695 700

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
705 710 715 720

Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly Val Gly Val
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
740 745 750

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly

Protein

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Gly Val 1430	Gly Val Pro Gly Val 1435	Gly Val Pro 1440
Gly Val 1445	Gly Val Pro Gly Val 1450	Gly Val Pro 1455
Gly Val 1460	Gly Val Pro Gly Val 1465	Gly Val Pro 1470
Gly Val 1475	Gly Val Pro Gly Val 1480	Gly Val Pro 1485
Gly Val 1490	Gly Val Pro Gly Val 1495	Arg Gly Asp Ser 1500
Pro Gly 1505	Val Gly Val Pro Gly 1510	Gly Val Gly Val 1515
Pro Gly 1520	Val Gly Val Pro Gly 1525	Gly Val Gly Val 1530
Pro Gly 1535	Val Gly Val Pro Gly 1540	Gly Val Gly Val 1545
Pro Gly 1550	Val Gly Val Pro Gly 1555	Gly Val Gly Val 1560
Pro Gly 1565	Val Gly Val Pro Gly 1570	Gly Val Gly Val 1575
Pro Gly 1580	Val Gly Val Pro Gly 1585	Gly Val Gly Val 1590
Pro Gly 1595	Val Gly Val Pro Gly 1600	Gly Val Gly Val 1605
Pro Gly 1610	Arg Gly Asp Ser Pro 1615	Gly Val Gly Val Pro 1620
Val Pro 1625	Gly Val Gly Val Pro 1630	Gly Val Gly Val Pro 1635
Val Pro 1640	Gly Val Gly Val Pro 1645	Gly Val Gly Val Pro 1650
Val Pro 1655	Gly Val Gly Val Pro 1660	Gly Val Gly Val Pro 1665
Val Pro 1670	Gly Val Gly Val Pro 1675	Gly Val Gly Val Pro 1680
Val Pro 1685	Gly Val Gly Val Pro 1690	Gly Val Gly Val Pro 1695
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Val Pro	Gly Val Gly Val Pro	Gly Arg Gly Asp Ser Pro Gly Val

1715 1720 1725 1730 1735 1740 1745 1750 1755 1760 1765 1770 1775 1780 1785 1790 1795 1800 1805 1810 1815 1820 1825 1830 1835 1840 1845 1850 1855 1860 1865 1870 1875 1880 1885 1890 1895 1900 1905 1910 1915 1920 1925 1930 1935 1940 1945 1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000

915	920	925
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930	935	940
Pro Gly Lys Gly Val	Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro
945	950	955 960
Gly Val Gly Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly	
965	970	975
Lys Gly Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Val	
980	985	990
Gly Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Lys Gly	
995	1000	1005
Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Val Gly	
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Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Lys Gly	
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Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Val Gly	
1040	1045	1050
Val Pro Gly Val Gly Val	Pro Gly Val Gly Val Pro Gly Lys Gly	
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35	40 45	
Val Pro Gly Val Gly Phe	Pro Gly Phe Gly Phe Pro Gly Val Gly Val	
50	55 60	
Pro Gly Val Gly Val Pro Gly Lys Gly Val	Pro Gly Val Gly Val Pro	

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Gly	Phe	Pro 115	Gly	Phe	Gly	Phe	Pro 120	Gly	Val	Gly	Val	Pro 125	Gly	Val	Gly
Val	Pro 130	Gly	Lys	Gly	Val	Pro 135	Gly	Val	Gly	Val	Pro 140	Gly	Val	Gly	Phe
Pro 145	Gly	Phe	Gly	Phe	Pro 150	Gly	Val	Gly	Val	Pro 155	Gly	Val	Gly	Val	Pro 160
Gly	Lys	Gly	Val	Pro 165	Gly	Val	Gly	Val	Pro 170	Gly	Val	Gly	Phe	Pro 175	Gly
Phe	Gly	Phe	Pro 180	Gly	Val	Gly	Val	Pro 185	Gly	Val	Gly	Val	Pro 190	Gly	Lys
Gly	Val	Pro 195	Gly	Val	Gly	Val	Pro 200	Gly	Val	Gly	Phe	Pro 205	Gly	Phe	Gly
Phe	Pro 210	Gly	Val	Gly	Val	Pro 215	Gly	Val	Gly	Val	Pro 220	Gly	Lys	Gly	Val
Pro 225	Gly	Val	Gly	Val	Pro 230	Gly	Val	Gly	Phe	Pro 235	Gly	Phe	Gly	Phe	Pro 240
Gly	Val	Gly	Val	Pro 245	Gly	Val	Gly	Val	Pro 250	Gly	Lys	Gly	Val	Pro 255	Gly
Val	Gly	Val	Pro 260	Gly	Val	Gly	Phe	Pro 265	Gly	Phe	Gly	Phe	Pro 270	Gly	Val
Gly	Val	Pro 275	Gly	Val	Gly	Val	Pro 280	Gly	Lys	Gly	Val	Pro 285	Gly	Val	Gly
Val	Pro 290	Gly	Val	Gly	Phe	Pro 295	Gly	Phe	Gly	Phe	Pro 300	Gly	Val	Gly	Val
Pro 305	Gly	Val	Gly	Val	Pro 310	Gly	Lys	Gly	Val	Pro 315	Gly	Val	Gly	Val	Pro 320
Gly	Val	Gly	Phe	Pro 325	Gly	Phe	Gly	Phe	Pro 330	Gly	Val	Gly	Val	Pro 335	Gly
Val	Gly	Val	Pro 340	Gly	Lys	Gly	Val	Pro 345	Gly	Val	Gly	Val	Pro 350	Gly	Val
Gly	Phe	Pro 355	Gly	Phe	Gly	Phe	Pro 360	Gly	Val	Gly	Val	Pro 365	Gly	Val	Gly
Val	Pro 370	Gly	Lys	Gly	Val	Pro 375	Gly	Val	Gly	Val	Pro 380	Gly	Val	Gly	Phe
Pro 385	Gly	Phe	Gly	Phe	Pro 390	Gly	Val	Gly	Val	Pro 395	Gly	Val	Gly	Val	Pro 400

Gly	Lys	Gly	Val	Pro 405	Gly	Val	Gly	Val	Pro 410	Gly	Val	Gly	Phe	Pro 415	Gly
Phe	Gly	Phe	Pro 420	Gly	Val	Gly	Val	Pro 425	Gly	Val	Gly	Val	Pro 430	Gly	Lys
Gly	Val	Pro 435	Gly	Val	Gly	Val	Pro 440	Gly	Val	Gly	Phe	Pro 445	Gly	Phe	Gly
Phe	Pro 450	Gly	Val	Gly	Val	Pro 455	Gly	Val	Gly	Val	Pro 460	Gly	Lys	Gly	Val
Pro 465	Gly	Val	Gly	Val	Pro 470	Gly	Val	Gly	Phe	Pro 475	Gly	Phe	Gly	Phe	Pro 480
Gly	Val	Gly	Val	Pro 485	Gly	Val	Gly	Val	Pro 490	Gly	Lys	Gly	Val	Pro 495	Gly
Val	Gly	Val	Pro 500	Gly	Val	Gly	Phe	Pro 505	Gly	Phe	Gly	Phe	Pro 510	Gly	Val
Gly	Val	Pro 515	Gly	Val	Gly	Val	Pro 520	Gly	Lys	Gly	Val	Pro 525	Gly	Val	Gly
Val	Pro 530	Gly	Val	Gly	Phe	Pro 535	Gly	Phe	Gly	Phe	Pro 540	Gly	Val	Gly	Val
Pro 545	Gly	Val	Gly	Val	Pro 550	Gly	Lys	Gly	Val	Pro 555	Gly	Val	Gly	Val	Pro 560
Gly	Val	Gly	Phe	Pro 565	Gly	Phe	Gly	Phe	Pro 570	Gly	Val	Gly	Val	Pro 575	Gly
Val	Gly	Val	Pro 580	Gly	Lys	Gly	Val	Pro 585	Gly	Val	Gly	Val	Pro 590	Gly	Val
Gly	Phe	Pro 595	Gly	Phe	Gly	Phe	Pro 600	Gly	Val	Gly	Val	Pro 605	Gly	Val	Gly
Val	Pro 610	Gly	Lys	Gly	Val	Pro 615	Gly	Val	Gly	Val	Pro 620	Gly	Val	Gly	Phe
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<211> 782
<212> PRT
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		35					40					45			
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly
	50					55					60				
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
65					70					75				80	
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
				85					90					95	
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
			100					105					110		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
		115					120					125			
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
	130					135					140				
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
145					150					155					160
Pro	Gly	Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val
				165					170					175	
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
			180					185					190		
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly
		195					200					205			
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
	210					215					220				
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225					230					235					240
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val
				245					250					255	
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro
			260					265					270		
Gly	Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro
		275					280						285		
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	290					295					300				
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
305					310					315					320
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly
				325					330					335	

Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	340	345	350
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	355	360	365
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	370	375	380
Val	Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	385	390	395
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	405	410	415
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	420	425	430
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	435	440	445
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	450	455	460
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	465	470	475
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	485	490	495
Gly	Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	500	505	510
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	515	520	525
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	530	535	540
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	545	550	555
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	565	570	575
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	580	585	590
Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	595	600	605
Val	Pro	Gly	Arg	Gly	Asp	Ser	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	610	615	620
Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	625	630	635
Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	645	650	655
Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly			

660	665	670
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val		
675	680	685
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly		
690	695	700
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val		
705	710	715
Pro Gly Arg Gly Asp Ser Pro Gly Val Gly Val Pro Gly Val Gly Val		
725	730	735
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro		
740	745	750
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755	760	765
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770	775	780

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 <212> PRT
 <213> Artificial Sequence

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 <222> (1)..(745)
 <223> Synthetic

<400> 38

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35	45
Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val	
50	60
Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro	
65	80
Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val	
85	95
Ala Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val	
100	110
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro	
115	125
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly	

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
465 470 475 480

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
485 490 495

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro
500 505 510

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
515 520 525

Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
565 570 575

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
580 585 590

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
610 615 620

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
625 630 635 640

Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
645 650 655

Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro
660 665 670

Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
675 680 685

Ala Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
690 695 700

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
705 710 715 720

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
725 730 735

Val Gly Val Pro Gly Val Gly Val Pro
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<223> Synthetic

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35 40 45
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
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Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
130 135 140
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
145 150 155 160
Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
165 170 175
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
180 185 190
Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
195 200 205
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
210 215 220
Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
225 230 235 240
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
245 250 255
Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
260 265 270
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
275 280 285

PEPTIDE

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Val	Gly	Val	Pro 660	Gly	Val	Gly	Val	Pro 665	Gly	Val	Gly	Val	Pro 670	Gly	Val
Gly	Val	Pro 675	Gly	Glu	Gly	Val	Pro 680	Gly	Val	Gly	Val	Pro 685	Gly	Val	Gly
Val	Pro 690	Gly	Val	Gly	Val	Pro 695	Gly	Val	Gly	Val	Pro 700	Gly	Val	Gly	Val
Pro 705	Gly	Glu	Gly	Val	Pro 710	Gly	Val	Gly	Val	Pro 715	Gly	Val	Gly	Val	Pro 720
Gly	Val	Gly	Val	Pro 725	Gly	Val	Gly	Val	Pro 730	Gly	Val	Gly	Val	Pro 735	Gly
Glu	Gly	Val	Pro 740	Gly	Val	Gly	Val	Pro 745	Gly	Val	Gly	Val	Pro 750	Gly	Val
Gly	Val	Pro 755	Gly	Val	Gly	Val	Pro 760	Gly	Val	Gly	Val	Pro 765	Gly	Glu	Gly
Val	Pro 770	Gly	Val	Gly	Val	Pro 775	Gly	Val	Gly	Val	Pro 780	Gly	Val	Gly	Val
Pro 785	Gly	Val	Gly	Val	Pro 790	Gly	Val	Gly	Val	Pro 795	Gly	Glu	Gly	Val	Pro 800
Gly	Val	Gly	Val	Pro 805	Gly	Val	Gly	Val	Pro 810	Gly	Val	Gly	Val	Pro 815	Gly
Val	Gly	Val	Pro 820	Gly	Val	Gly	Val	Pro 825	Gly	Glu	Gly	Val	Pro 830	Gly	Val
Gly	Val	Pro 835	Gly	Val	Gly	Val	Pro 840	Gly	Val	Gly	Val	Pro 845	Gly	Val	Gly
Val	Pro 850	Gly	Val	Gly	Val	Pro 855	Gly	Glu	Gly	Val	Pro 860	Gly	Val	Gly	Val
Pro 865	Gly	Val	Gly	Val	Pro 870	Gly	Val	Gly	Val	Pro 875	Gly	Val	Gly	Val	Pro 880
Gly	Val	Gly	Val	Pro 885	Gly	Glu	Gly	Val	Pro 890	Gly	Val	Gly	Val	Pro 895	Gly
Val	Gly	Val	Pro 900	Gly	Val	Gly	Val	Pro 905	Gly	Val	Gly	Val	Pro 910	Gly	Val
Gly	Val	Pro 915	Gly	Glu	Gly	Val	Pro 920	Gly	Val	Gly	Val	Pro 925	Gly	Val	Gly
Val	Pro 930	Gly	Val	Gly	Val	Pro 935	Gly	Val	Gly	Val	Pro 940	Gly	Val	Gly	Val

106790-124960

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 965 970 975

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 980 985 990

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
 995 1000 1005

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 1010 1015 1020

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
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Val Pro
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 <223> Synthetic

<400> 40

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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 50 55 60

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 65 70 75 80

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 85 90 95

Val	Gly	Val	Pro 100	Gly	Val	Gly	Val	Pro 105	Gly	Val	Gly	Val	Pro 110	Gly	Val
Gly	Val	Pro 115	Gly	Val	Gly	Val	Pro 120	Gly	Val	Gly	Val	Pro 125	Gly	Val	Gly
Val	Pro 130	Gly	Val	Gly	Val	Pro 135	Gly	Val	Gly	Val	Pro 140	Gly	Val	Gly	Val
Pro 145	Gly	Val	Gly	Val	Pro 150	Gly	Val	Gly	Val	Pro 155	Gly	Val	Gly	Val	Pro 160
Gly	Val	Gly	Val	Pro 165	Gly	Val	Gly	Val	Pro 170	Gly	Val	Gly	Val	Pro 175	Gly
Val	Gly	Val	Pro 180	Gly	Val	Gly	Val	Pro 185	Gly	Val	Gly	Val	Pro 190	Gly	Val
Gly	Val	Pro 195	Gly	Val	Gly	Val	Pro 200	Gly	Val	Gly	Val	Pro 205	Gly	Val	Gly
Val	Pro 210	Gly	Val	Gly	Val	Pro 215	Gly	Val	Gly	Val	Pro 220	Gly	Val	Gly	Val
Pro 225	Gly	Val	Gly	Val	Pro 230	Gly	Val	Gly	Val	Pro 235	Gly	Val	Gly	Val	Pro 240
Gly	Val	Gly	Val	Pro 245	Gly	Val	Gly	Val	Pro 250	Gly	Val	Gly	Val	Pro 255	Gly
Val	Gly	Val	Pro 260	Gly	Val	Gly	Val	Pro 265	Gly	Val	Gly	Val	Pro 270	Gly	Val
Gly	Val	Pro 275	Gly	Val	Gly	Val	Pro 280	Gly	Val	Gly	Val	Pro 285	Gly	Val	Gly
Val	Pro 290	Gly	Val	Gly	Val	Pro 295	Gly	Val	Gly	Val	Pro 300	Gly	Val	Gly	Val
Pro 305	Gly	Val	Gly	Val	Pro 310	Gly	Val	Gly	Val	Pro 315	Gly	Val	Gly	Val	Pro 320
Gly	Val	Gly	Val	Pro 325	Gly	Val	Gly	Val	Pro 330	Gly	Val	Gly	Val	Pro 335	Gly
Val	Gly	Val	Pro 340	Gly	Val	Gly	Val	Pro 345	Gly	Val	Gly	Val	Pro 350	Gly	Val
Gly	Val	Pro 355	Gly	Val	Gly	Val	Pro 360	Gly	Val	Gly	Val	Pro 365	Gly	Val	Gly
Val	Pro 370	Gly	Val	Gly	Val	Pro 375	Gly	Val	Gly	Val	Pro 380	Gly	Val	Gly	Val
Pro 385	Gly	Val	Gly	Val	Pro 390	Gly	Val	Gly	Val	Pro 395	Gly	Val	Gly	Val	Pro 400
Gly	Val	Gly	Val	Pro 405	Gly	Val	Gly	Val	Pro 410	Gly	Val	Gly	Val	Pro 415	Gly

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
420 425 430

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
435 440 445

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
450 455 460

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
465 470 475 480

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
485 490 495

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
515 520 525

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
545 550 555 560

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
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Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1055					1060					1065			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1070					1075					1080			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1085					1090					1095			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1100					1105					1110			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1115					1120					1125			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1130					1135					1140			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1145					1150					1155			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1160					1165					1170			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1175					1180					1185			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1190					1195					1200			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1205					1210					1215			
Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly
	1220					1225					1230			
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	1250					1255					1260			
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	1265					1270					1275			
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Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro
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Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
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Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
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Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
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Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
35 40 45

Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
50 55 60

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
65 70 75 80

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
85 90 95

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Gly Val Pro Gly Val Gly Val Pro Gly Phe Gly Val Pro
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 20 25 30
 Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
 35 40 45
 Ile Pro Gly Val Gly Val Pro Gly Arg Gly Asp Ser Pro Gly Val Gly
 50 55 60
 Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Phe
 65 70 75 80
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 85 90 95
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 20 25 30
 Gly Val Pro Gly Lys Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly
 35 40 45

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